

09/389,289 East Search 2/2/05 RMB

BRS	0	99117375	USPAT; EPO; DERWENT	7/21/04 12:33	S1
BRS	12	117375	USPAT; EPO; DERWENT	1/13/02 15:03	S2
BRS	721	tsumura.in.	USPAT; EPO; DERWENT	1/13/02 15:03	S3
BRS	1	tsumura.in. and (interpolation adj synchronous adj detection)	USPAT; EPO; DERWENT	1/13/02 15:04	S4
BRS	6	interpolation adj synchronous adj detection	USPAT; EPO; DERWENT	1/13/02 15:44	S5
BRS	476	pilot with middle	USPAT; EPO; DERWENT	1/13/02 15:06	S6
BRS	1	(interpolation adj synchronous adj detection) and (pilot with middle)	USPAT; EPO; DERWENT	1/13/02 15:06	S7
BRS	N/A	5692015.pn. and (mid\$ or center\$)	USPAT; EPO; DERWENT	1/13/02 15:18	
BRS	N/A	5692015.pn. and sampl\$	USPAT; EPO; DERWENT	1/13/02 15:18	
BRS	N/A	interpolation with synchron\$ with detect\$	USPAT; EPO; DERWENT	1/13/02 15:55	
BRS	100524	pilot\$	USPAT; EPO; DERWENT	1/13/02 15:48	S8
BRS	1426	pilot\$ with symbol\$	USPAT; EPO; DERWENT	1/13/02 15:50	S9
BRS	11	(interpolation with synchron\$ with detect\$) same (pilot\$ with symbol\$)	USPAT; EPO; DERWENT	1/13/02 15:49	S10
BRS	N/A	(pilot\$ with symbol\$) with sampl\$	USPAT; EPO; DERWENT	7/21/04 17:32	
BRS	1	((pilot\$ with symbol\$) with sampl\$) and (interpolation with synchron\$ with detect\$)	USPAT; EPO; DERWENT	1/13/02 15:51	S11
BRS	N/A	synchron\$ with detect\$	USPAT; EPO; DERWENT	1/13/02 15:57	
BRS	81	optimal near3 sampling near3 point\$1	USPAT; EPO; DERWENT	1/13/02 15:58	S12
BRS	25	(synchron\$ with detect\$) and (optimal near3 sampling near3 point\$1)	USPAT; EPO; DERWENT	1/13/02 16:00	S13
BRS	4	(synchron\$ with detect\$) same (optimal near3 sampling near3 point\$1)	USPAT; EPO; DERWENT	1/13/02 15:59	S14
BRS	0	(optimal near3 sampling near3 point\$1) and (interpolation with synchron\$ with detect\$)	USPAT; EPO; DERWENT	1/13/02 15:59	S15
BRS	N/A	((synchron\$ with detect\$) and (optimal near3 sampling near3 point\$1)) and eye	USPAT; EPO; DERWENT	1/13/02 16:04	
BRS	N/A	sampl\$ with eye with pattern with point\$	USPAT; EPO; DERWENT	1/13/02 16:07	
BRS	0	(interpolation with synchron\$ with detect\$) and (sampl\$ with eye with pattern	USPAT; EPO; DERWENT	1/13/02 16:08	S16
BRS	0	((synchron\$ with detect\$) and (sampl\$ with eye with pattern with point\$)) and	USPAT; EPO; DERWENT	1/13/02 16:08	S17
BRS	9	(synchron\$ with detect\$) and (sampl\$ with eye with pattern with point\$)	USPAT; EPO; DERWENT	1/13/02 16:08	S18
BRS	N/A	synchronous near4 detect\$	US-PGPUB; USPAT; EPO; DERWENT	10/30/02 14:43	
BRS	32	(synchronous near4 detect\$) with interpolation	US-PGPUB; USPAT; EPO; DERWENT	10/30/02 15:08	S19
BRS	18276	between with pilot	US-PGPUB; USPAT; EPO; DERWENT	10/30/02 14:45	S20
BRS	121	(between with pilot) with (mid or middle)	US-PGPUB; USPAT; EPO; DERWENT	10/30/02 14:55	S21
BRS	95	((between with pilot) with (mid or middle)) and @ad<"19980903"	US-PGPUB; USPAT; EPO; DERWENT	10/30/02 14:56	S22
BRS	3	(synchronous near4 detect\$) and ((between with pilot) with (mid or middle))	US-PGPUB; USPAT; EPO; DERWENT	10/30/02 14:58	S23
BRS	1	984562.URPN.	USPAT	10/30/02 14:57	S24
BRS	1	3029031B2	US-PGPUB; USPAT; EPO; DERWENT	10/30/02 14:58	S25
BRS	9	3029031	US-PGPUB; USPAT; EPO; JPO; DERWENT	10/30/02 14:58	S26
BRS	9	3029031	US-PGPUB; USPAT; EPO; DERWENT	10/30/02 14:59	S27
BRS	17	249559	US-PGPUB; USPAT; EPO; DERWENT	10/30/02 14:59	S28
BRS	N/A	detect\$ near5 interpolation	US-PGPUB; USPAT; EPO; DERWENT	10/30/02 15:10	
BRS	31	(detect\$ near5 interpolation) and (between with pilot)	US-PGPUB; USPAT; EPO; DERWENT	10/30/02 15:10	S29
BRS	8	(detect\$ near5 interpolation) same (between with pilot)	US-PGPUB; USPAT; EPO; DERWENT	10/30/02 15:16	S30
BRS	2	((detect\$ near5 interpolation) same (between with pilot)) and middle	US-PGPUB; USPAT; EPO; DERWENT	10/30/02 15:12	S31
BRS		((detect\$ near5 interpolation) and (between with pilot)) not ((detect\$ near5 interpolation) same (between with pilot))	US-PGPUB; USPAT; EPO; DERWENT	10/30/02 15:17	S32
BRS	23	sync\$ near4 middle with frame\$1	US-PGPUB; USPAT; EPO; DERWENT	10/30/02 15:47	
BRS	N/A	(sync\$ near4 middle with frame\$1) and pilot	US-PGPUB; USPAT; EPO; DERWENT	10/30/02 15:21	S33
BRS	1	(detect\$ near5 interpolation) same (complex adj conjugate)	US-PGPUB; USPAT; EPO; DERWENT	10/30/02 16:17	S34
IS&R	6	(("5692015") or ("5822364") or ("5525974")).PN.	US-PGPUB; USPAT; USOCR; EPO; DERWENT	10/30/02 15:56	S35
IS&R	4	(("6314090") or ("5694388")).PN.	US-PGPUB; USPAT; USOCR; EPO; DERWENT	10/30/02 15:56	S36
BRS	0	((detect\$ near5 interpolation) same (complex adj conjugate)) and transfer	US-PGPUB; USPAT; EPO; DERWENT	10/30/02 16:17	S37
BRS	2	((detect\$ near5 interpolation) same (complex adj conjugate)) and interpolat\$	US-PGPUB; USPAT; EPO; DERWENT	10/30/02 16:27	S38
BRS	1883	sampling adj timing	US-PGPUB; USPAT; EPO; DERWENT	10/30/02 16:28	S39
BRS	9	middle with (sampling adj timing)	US-PGPUB; USPAT; EPO; DERWENT	10/30/02 16:28	S40
BRS	1	(middle with (sampling adj timing)) and interpolat\$	US-PGPUB; USPAT; EPO; DERWENT	10/30/02 16:28	S41
BRS	0	(middle with (sampling adj timing)) and (synchronous near4 detect\$)	US-PGPUB; USPAT; EPO; DERWENT	10/30/02 16:28	S42
BRS	5874	sampling near3 timing	US-PGPUB; USPAT; EPO; DERWENT	10/30/02 16:28	S43
BRS	24	middle with (sampling near3 timing)	US-PGPUB; USPAT; EPO; DERWENT	10/30/02 16:28	S44
BRS	4	(middle with (sampling near3 timing)) and interpolat\$	US-PGPUB; USPAT; EPO; DERWENT	10/30/02 17:14	S45
BRS	2	(middle with (sampling near3 timing)) and (synchronous near4 detect\$)	US-PGPUB; USPAT; EPO; DERWENT	10/30/02 16:29	S46
BRS	0	5822364.pn. and gain	US-PGPUB; USPAT; EPO; DERWENT	10/30/02 16:54	S47
BRS	1	5692015.pn. and transfer and gain	US-PGPUB; USPAT; EPO; DERWENT	10/30/02 16:55	S48
BRS	0	5692015.pn. and complex	US-PGPUB; USPAT; EPO; DERWENT	10/30/02 16:55	S49
BRS	N/A	estimat\$ near4 transfer near2 function\$	US-PGPUB; USPAT; EPO; DERWENT	3/23/03 18:19	
BRS	40	(estimat\$ near4 transfer near2 function\$) with pilot	US-PGPUB; USPAT; EPO; DERWENT	3/23/03 18:20	S50
BRS	19	((estimat\$ near4 transfer near2 function\$) with pilot) same interpolation	US-PGPUB; USPAT; EPO; DERWENT	3/23/03 18:20	S51
BRS	22	((estimat\$ near4 transfer near2 function\$) with pilot) same interpolat\$	US-PGPUB; USPAT; EPO; DERWENT	3/23/03 18:20	S52
BRS	13	((estimat\$ near4 transfer near2 function\$) with pilot) same interpolat\$ and	US-PGPUB; USPAT; EPO; DERWENT	3/23/03 18:49	S53
BRS		((estimat\$ near4 transfer near2 function\$) with pilot) same interpolat\$ and	US-PGPUB; USPAT; EPO; DERWENT		
BRS	2	@ad<"19980903" and ("6351458".pn. or "6178194".pn.)	US-PGPUB; USPAT; EPO; DERWENT	3/23/03 18:50	S54
BRS		(((((estimat\$ near4 transfer near2 function\$) with pilot) same interpolat\$) and			
BRS	1	@ad<"19980903" and ("6351458".pn. or "6178194".pn.) and gain	US-PGPUB; USPAT; EPO; DERWENT	3/23/03 18:50	S55
BRS	2	5375146.pn. and sampl\$5	USPAT; EPO; DERWENT	7/21/04 12:33	S56
BRS	0	5375146.pn. and over adj sampl\$5	USPAT; EPO; DERWENT	7/21/04 12:34	S57
BRS	1	5375146.pn. and oversampl\$5	USPAT; EPO; DERWENT	7/21/04 13:18	S58
BRS	1	5375146.pn. and error\$5	USPAT; EPO; DERWENT	7/21/04 17:32	S59
BRS	0	375/316,354,371,345	USPAT; EPO; DERWENT	7/21/04 17:32	S60
IS&R	3829	(375/316,354,371,345).CCLS.	US-PGPUB; USPAT; USOCR; EPO; DERWENT	7/21/04 17:32	S61
BRS	251	(pilot\$5 with symbol\$5) with sampl\$5	USPAT; EPO; DERWENT	1/13/05 15:25	S62
BRS	14	((375/316,354,371,345).CCLS.) and (pilot\$5 with symbol\$5) with sampl\$5)	USPAT; EPO; DERWENT	7/21/04 17:32	S63
BRS	194	phase near4 error\$1 with transfer near4 function\$1	USPAT; EPO; DERWENT	1/13/05 15:29	S64
BRS	31	S64 same sampl\$5	USPAT; EPO; DERWENT	1/13/05 15:27	S65
BRS	6	(phase near4 error\$1) same (chang\$4 near4 transfer near4 function\$1)	USPAT; EPO; DERWENT	2/2/05 16:02	S66
BRS	1	S66 and "5070514".pn.	USPAT; EPO; DERWENT	1/13/05 15:36	S67

BRS	0	S67 and interpolation	USPAT; EPO; DERWENT	1/13/05 15:36	S68
BRS	1	S67 and detection	USPAT; EPO; DERWENT	1/13/05 16:01	S69
IS&R	10	((("6351458") or ("5375146") or ("5822364") or ("6178194") or ("5692015"))).PN.	US-PGPUB; USPAT; EPO; DERWENT	1/13/05 16:03	S70
BRS	4	S70 and transfer	US-PGPUB; USPAT; EPO; DERWENT	1/13/05 16:03	S71
BRS	0	S70 and transfer same phase near4 error\$1	US-PGPUB; USPAT; EPO; DERWENT	1/13/05 16:05	S72
BRS	2	S70 and transfer same phase	US-PGPUB; USPAT; EPO; DERWENT	1/13/05 16:04	S73
BRS	1	S70 and transfer same error\$1	US-PGPUB; USPAT; EPO; DERWENT	1/13/05 16:04	S74
BRS	2	S70 and phase near4 error\$1	US-PGPUB; USPAT; EPO; DERWENT	1/13/05 16:07	S75
BRS	0	S67 and oversamp\$6	US-PGPUB; USPAT; EPO; DERWENT	1/13/05 16:07	S77
BRS	1	S67 and samp\$6	US-PGPUB; USPAT; EPO; DERWENT	1/13/05 16:07	S76
BRS	6	(phase near4 error\$1) same (chang\$4 near4 transfer near4 function\$1)	USPAT; EPO; DERWENT	2/2/05 15:31	S78
IS&R	4	((("6351458") or ("5375146"))).PN.	US-PGPUB; USPAT; EPO; DERWENT	2/2/05 15:49	S79
BRS	1	S79 and (phase near4 error\$)	US-PGPUB; USPAT; EPO; DERWENT	2/2/05 15:49	S80
BRS	0	S79 and equal\$5	US-PGPUB; USPAT; EPO; DERWENT	2/2/05 15:32	S81
BRS	0	S79 and constellat\$5	US-PGPUB; USPAT; EPO; DERWENT	2/2/05 15:49	S82
BRS	0	S79 and constel\$5	US-PGPUB; USPAT; EPO; DERWENT	2/2/05 15:33	S83
BRS	1	S79 and symbol	US-PGPUB; USPAT; EPO; DERWENT	2/2/05 15:33	S84
BRS	2	S79 and symbol\$1	US-PGPUB; USPAT; EPO; DERWENT	2/2/05 15:33	S85
BRS	1	S79 and psk	US-PGPUB; USPAT; EPO; DERWENT	2/2/05 15:34	S86
BRS	1	S79 and qpsk	US-PGPUB; USPAT; EPO; DERWENT	2/2/05 15:34	S87
BRS	2	S79 and qam	US-PGPUB; USPAT; EPO; DERWENT	2/2/05 15:49	S88
IS&R	2	("6178194").PN.	US-PGPUB; USPAT; EPO; DERWENT	2/2/05 15:49	S89
BRS	0	S89 and (phase near4 error\$)	US-PGPUB; USPAT; EPO; DERWENT	2/2/05 15:49	S90
BRS	0	S89 and constellat\$5	US-PGPUB; USPAT; EPO; DERWENT	2/2/05 15:49	S91
BRS	1	S89 and qam	US-PGPUB; USPAT; EPO; DERWENT	2/2/05 15:49	S92
BRS	1	S89 and transfer	US-PGPUB; USPAT; EPO; DERWENT	2/2/05 15:50	S93
BRS	6	(phase near4 error\$1) same (chang\$4 near4 transfer near4 function\$1)	USPAT; EPO; DERWENT	2/2/05 16:23	S94
BRS	434	(phase near4 error\$1) same (transfer near4 function\$1)	USPAT; EPO; DERWENT	2/2/05 16:23	S95
BRS	662	middle with pilot	US-PGPUB; USPAT; EPO; DERWENT	2/2/05 16:24	S96
BRS	1	S95 and S96	US-PGPUB; USPAT; EPO; DERWENT	2/2/05 16:24	S97
BRS	4217	center with pilot	US-PGPUB; USPAT; EPO; DERWENT	2/2/05 16:24	S98
BRS	125	S98 and S96	US-PGPUB; USPAT; EPO; DERWENT	2/2/05 16:25	S99
BRS	89	S99 and @ad<"19980903"	US-PGPUB; USPAT; EPO; DERWENT	2/2/05 16:25	S100
BRS	24	S99 and @riad<"19980903"	US-PGPUB; USPAT; EPO; DERWENT	2/2/05 16:25	S101
BRS	93	S100 or S101	US-PGPUB; USPAT; EPO; DERWENT	2/2/05 16:25	S102
BRS	2	S98 and S95	US-PGPUB; USPAT; EPO; DERWENT	2/2/05 16:25	S103